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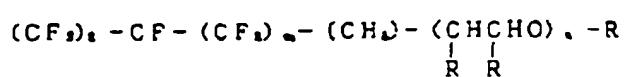
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TITLE : SEPARATOR FOR CAPACITOR AND
 CAPACITOR USING THEREOF

ABSTRACT : PURPOSE: To obtain a separator for capacitor, which has an affinity and has a stable heat resistance for a long period, by a method wherein a coating layer containing a fluorine surface active agent having a specified structure is chemically made to apply on the surfaces of small holes in a fluorine high-molecular polymer porous film.

CONSTITUTION: A coating layer containing a fluorine surface active agent having a structure, which is shown by a formula I, is formed on the surfaces of small holes in a fluorine high-molecular polymer film, desirably a PTFE porous film, by a chemical affinity. In the formula I, the R is H, OH, COOH or CH₃, the (m) is 1 to 17 and the (n) is 1 to 20. As the surface active agent, a surface active agent with an ethylene oxide part, which is substituted for an OH group or a COOH group in its one group, is specially desirable. Thereby, a separator for capacitor, which is capable of absorbing and holding an electrolyte, has an oxidation resistance and an alkali resistance and is stable even at a high temperature, can be obtained.

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